

Wastewater Quality Verification Results¹

In accordance with the approved *Sampling Plan for Dispersion of Fully-Treated Water*, six water samples were collected on July 18, 2003 during the initial loading of the vessel. Each of the tanks in the vessel were sampled individually and manually composited as listed below to correspond to the “segregations” of the vessel. The samples were collected at the following locations:

Location	Sample Log No.	Sample Name
Acidulation to Basin No. 2 Pipeline	52757-1	AC #1
Pipeline Terminus at Port Manatee	52757-6	Pipeline
Tanks 1-P, 1-C, 1-S, 2-P, and 2-S	52757-2	1 SEG
Tanks 2-C, 3-P, 3-C, and 3-S	52757-3	2 SEG
Row 4 Tanks	52757-4	3 SEG
Row 5 Tanks	52757-5	4 SEG

A copy of the laboratory report is attached for your review. As shown in this report, none of the samples contained detectable levels of petroleum hydrocarbons, oil and grease, or volatile organic compounds. Three of the samples, nos. 2, 3, and 4, contained detectable levels of detergent (measured as methylene blue active substances) that were well below the target cleanliness standards. The levels of lead in all samples exceeded the target cleanup levels. However, the source of the lead is the treated water. This conclusion is reached because of the consistent levels of dissolved and total recoverable lead in all six samples and, more importantly, the levels of dissolved and total recoverable lead in the upstream acidulation station sample. Please note that the levels of lead measured, although higher than the target level, are approximately 90 percent lower than the Agency’s Criteria Maximum Concentration for lead in saltwater environments.

¹August 15, 2003 letter from Mimi Drew, Director, Division of Water Resource Management, Florida Department of Environmental Protection to Jimmy Palmer, Regional Administrator, U.S. EPA Region 4. Re: Permit No. OD-03 Piney Point July 2003 Monthly Report

Analytical Report

Report To: Mr. Gary Uebelhoer
Environmental Consulting & Technology
1408 North Westshore Ste 115
Tampa, FL 33607

Project Number:
Project Name: Piney Point
STL Log Number: B352757
Report Date: July 25, 2003

Results Pages 1 through 7 (excluding cover page)



Tina Fritz, Project Manager
tfritz@stl-inc.com

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LOG NO: B3-52757
Received: 18 JUL 03
Reported: 25 JUL 03Mr. Gary Uebelhoer
Environmental Consulting & Technology, Inc.
1408 North Westshore Ste 115
Tampa, FL 33607Project: Piney Point
Sampled By: Client
Code: 104130725
Page 1

REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , LIQUID SAMPLES	DATE/ TIME SAMPLED				
52757-1	AC#1	07-18-03/10:00				
52757-2	1 SEG	07-18-03/11:00				
52757-3	2 SEG	07-18-03/11:30				
52757-4	3 SEG	07-18-03/12:15				
52757-5	4 SEG	07-18-03/12:50				
PARAMETER	52757-1	52757-2	52757-3	52757-4	52757-5	
Petroleum Range Organics (FL-PRO) (FL-PRO)						
Petroleum Hydrocarbons , mg/l	<0.30	<0.30	<0.30	<0.30	<0.30	
Surrogate, o-Terphenyl	100 %	110 %	100 %	110 %	100 %	
Prep Date	07.21.03	07.21.03	07.21.03	07.21.03	07.21.03	
Analysis Date	07.24.03	07.24.03	07.24.03	07.24.03	07.24.03	
Oil & Grease (Hexane Extractable Material)(1664) (1664), mg/l						
	<5.0	<5.0	<5.0	<5.0	<5.0	
Prep Date	07.24.03	07.24.03	07.24.03	07.24.03	07.24.03	
Analysis Date	07.24.03	07.24.03	07.24.03	07.24.03	07.24.03	
MBAS, calculated as LAS, mol wt 340 (SM5540C), mg MBAS/L						
	<0.10	0.13	0.15	0.13	<0.10	
Prep Date	07.18.03	07.18.03	07.18.03	07.18.03	07.18.03	
Analysis Date	07.18.03	07.18.03	07.18.03	07.18.03	07.18.03	
Lead (200.7), ug/l						
	20	22	25	21	25	
Prep Date	07.18.03	07.18.03	07.18.03	07.18.03	07.18.03	
Analysis Date	07.22.03	07.22.03	07.22.03	07.22.03	07.22.03	

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LOG NO	SAMPLE DESCRIPTION , LIQUID SAMPLES	DATE/ TIME SAMPLED			
52757-1	AC#1	07-18-03/10:00			
52757-2	1 SEG	07-18-03/11:00			
52757-3	2 SEG	07-18-03/11:30			
52757-4	3 SEG	07-18-03/12:15			
52757-5	4 SEG	07-18-03/12:50			
PARAMETER	52757-1	52757-2	52757-3	52757-4	52757-5
Lead, Dissolved (200.7), ug/l	19	18	19	19	20
Prep Date	07.18.03	07.18.03	07.18.03	07.18.03	07.18.03
Analysis Date	07.22.03	07.22.03	07.22.03	07.22.03	07.22.03
Purgeables (624)					
Benzene, ug/l	<1.0	<1.0	<1.0	<1.0	<1.0
Ethylbenzene, ug/l	<1.0	<1.0	<1.0	<1.0	<1.0
Naphthalene, ug/l	<1.0	<1.0	<1.0	<1.0	<1.0
Toluene, ug/l	<1.0	1.7	<1.0	<1.0	<1.0
Xylenes, Total, ug/l	<1.0	6.3	<1.0	<1.0	<1.0
Surrogate - Toluene-d8	92 %	90 %	90 %	86 %	92 %
Surrogate - 4-Bromofluorobenzene	80 %	84 %	86 %	80 %	82 %
Surrogate - Dibromofluoromethane	102 %	100 %	108 %	100 %	100 %
Analysis Date	07.23.03	07.23.03	07.23.03	07.23.03	07.23.03

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Environmental Consulting & Technology, Inc.
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Sampled By: Client
Code: 110230725
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REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , LIQUID SAMPLES	DATE/ TIME SAMPLED
52757-6	PIPELINE	07-18-03/13:10
PARAMETER	52757-6	
Petroleum Range Organics (FL-PRO) (FL-PRO)		
Petroleum Hydrocarbons , mg/l	<0.30	
Surrogate, o-Terphenyl	110 %	
Prep Date	07.21.03	
Analysis Date	07.24.03	
Oil & Grease (Hexane Extractable Material) (1664)	<5.0	
(1664), mg/l		
Prep Date	07.24.03	
Analysis Date	07.24.03	
MBAS, calculated as LAS, mol wt 340 (SM5540C), mg MBAS/L	<0.10	
Prep Date	07.18.03	
Analysis Date	07.18.03	
Lead (200.7), ug/l	20	
Prep Date	07.18.03	
Analysis Date	07.22.03	
Lead, Dissolved (200.7), ug/l	20	
Prep Date	07.18.03	
Analysis Date	07.22.03	

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Code: 104130725

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REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , LIQUID SAMPLES	DATE/ TIME SAMPLED
52757-6	PIPELINE	07-18-03/13:10
PARAMETER	52757-6	
Purgeables (624)		
Benzene, ug/l	<1.0	
Ethylbenzene, ug/l	<1.0	
Naphthalene, ug/l	<1.0	
Toluene, ug/l	<1.0	
Xylenes, Total, ug/l	<1.0	
Surrogate - Toluene-d8	90 %	
Surrogate - 4-Bromofluorobenzene	84 %	
Surrogate - Dibromofluoromethane	106 %	
Analysis Date	07.23.03	

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Sampled By: Client
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REPORT OF RESULTS

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LOG NO	SAMPLE DESCRIPTION , QC REPORT FOR LIQUID SAMPLES	DATE/ TIME SAMPLED			
52757-7	Method Blank				
52757-8	Accuracy (%Rec)				
52757-9	LCS Accuracy Control Limit (%R)				
52757-10	Precision (%RPD)				
52757-11	LCS Precision Control Limit (Advisory) %RPD				
PARAMETER	52757-7	52757-8	52757-9	52757-10	52757-11
Petroleum Range Organics (FL-PRO) (FL-PRO)					
Petroleum Hydrocarbons , mg/l	<0.30	96 %	55-118 %	0 %	<20 %
Surrogate, o-Terphenyl	110 %	96/94 %	38-156 %	---	---
Prep Date	07.21.03	07.21.03	---	07.21.03	---
Analysis Date	07.24.03	07.24.03	---	07.24.03	---
Oil & Grease (Hexane Extractable Material) (1664) (1664), mg/l					
	<5.0	94 %	78-114 %	7.4 %	<18 %
Prep Date	07.24.03	07.24.03	---	07.24.03	---
Analysis Date	07.24.03	07.24.03	---	07.24.03	---
MBAS, calculated as LAS, mol wt 340 (SM5540C), mg MBAS/L					
	<0.10	93 %	80-120 %	4.3 %	<30 %
Prep Date	07.18.03	07.18.03	---	07.18.03	---
Analysis Date	07.18.03	07.18.03	---	07.18.03	---
Lead (200.7), ug/l					
	<5.0	93 %	75-125 %	2.1 %	<20 %
Prep Date	07.18.03	07.18.03	---	07.18.03	---
Analysis Date	07.22.03	07.22.03	---	07.22.03	---

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REPORT OF RESULTS

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LOG NO	SAMPLE DESCRIPTION , QC REPORT FOR LIQUID SAMPLES	DATE/ TIME SAMPLED			
52757-7	Method Blank				
52757-8	Accuracy (%Rec)				
52757-9	LCS Accuracy Control Limit (%R)				
52757-10	Precision (%RPD)				
52757-11	LCS Precision Control Limit (Advisory) %RPD				
PARAMETER	52757-7	52757-8	52757-9	52757-10	52757-11
Lead, Dissolved (200.7), ug/l	<5.0	93 %	75-125 %	2.1 %	<20 %
Prep Date	07.18.03	07.18.03	---	07.18.03	---
Analysis Date	07.22.03	07.22.03	---	07.22.03	---
Purgeables (624)					
Benzene, ug/l	<1.0	92 %	62-135 %	0 %	<16 %
Ethylbenzene, ug/l	<1.0	---	---	---	---
Naphthalene, ug/l	<1.0	---	---	---	---
Toluene, ug/l	<1.0	80 %	68-131 %	10 %	<33 %
Xylenes, Total, ug/l	<1.0	---	---	---	---
Surrogate - Toluene-d8	90 %	88/96 %	77-122 %	---	---
Surrogate - 4-Bromofluorobenzene	84 %	92/88 %	74-126 %	---	---
Surrogate - Dibromofluoromethane	108 %	116/118 %	70-130 %	---	---
Analysis Date	07.23.03	07.23.03	---	07.23.03	---

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Project: Piney Point
Sampled By: Client
Code: 104730725
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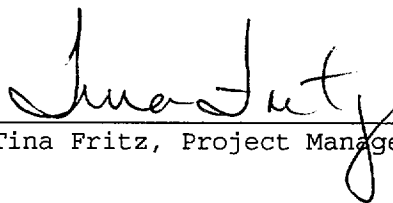
REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , QC REPORT FOR LIQUID SAMPLES	DATE/ TIME SAMPLED
52757-7	Method Blank	
52757-8	Accuracy (%Rec)	
52757-9	LCS Accuracy Control Limit (%R)	
52757-10	Precision (%RPD)	
52757-11	LCS Precision Control Limit (Advisory) %RPD	
PARAMETER	52757-7	52757-8
	52757-9	52757-10
	52757-11	

Method: FDEP, Federal Register, EPA 40 CFR PART 136, Standard Method, SW-846
DOH Certification #E84282

These test results meet all the requirements of NELAC. All questions regarding this test report should be directed to the STL project manager who signed this test report.

The estimated uncertainty associated with these reported results is available upon request.


Tina Fritz, Project Manager

STL Tampa

Website: www.stl-inc.com

6712 Benjamin Road, Suite 100C

Tampa, FL 33634

Fax: (813) 885-7049

SEVERN
TRENT

STL

852757

○ Alternate Laboratory Name/Location

Phone _____
Fax: _____

PROJECT REFERENCE		PROJECT NO.		PROJECT LOCATION (STATE)		MATRIX TYPE		REQUIRED ANALYSIS		PAGE	OF
SAMPLE'S SIGNATURE		P.O. NUMBER		CONTRACT NO.						1	1
CLIENT (SITE) PM		CLIENT PHONE		CLIENT FAX						STANDARD REPORT DELIVERY <input type="radio"/>	
CLIENT NAME		CLIENT E-MAIL								DATE DUE 5 DAYS <input type="radio"/>	
CLIENT ADDRESS										EXPEDITED REPORT DELIVERY (SURCHARGE) <input type="radio"/>	
COMPANY CONTRACTING THIS WORK (if applicable)										DATE DUE <input type="radio"/>	
SAMPLE		SAMPLE IDENTIFICATION		COMPOSITE (C) OR GRAB (G) INDICATE		NUMBER OF CONTAINERS SUBMITTED		REMARKS		NUMBER OF COOLERS SUBMITTED PER SHIPMENT:	
DATE	TIME			AQUEOUS (WATER)							
				SOLID OR SEMISOLID							
				AIR							
				NONAQUEOUS LIQUID (OIL, SOLVENT,...)							
2/19/02 1000		AC #1				2 2 3 1 1 1					
1/00		15eq 15				2 2 3 1 1 1					
		15eq 1C				3 2 3 1 1 1					
		15eq 1P				3 2 3 1 1 1					
		15eq 2S				3 2 3 1 1 1					
		15eq 2P				3 2 3 1 1 1					
1/30		25eq 2				2 2 1 1 1					
		25eq 2C				3 2 3 1 1 1					
		25eq 3P				3 2 3 1 1 1					
		25eq 3C				3 2 3 1 1 1					
		25eq 3S				3 2 3 1 1 1					
RELINQUISHED BY: (SIGNATURE)		DATE		TIME		RELINQUISHED BY: (SIGNATURE)		DATE		TIME	
1/6/03		7-16-03		1530		1/6/03		7-16-03		1530	
RECEIVED BY: (SIGNATURE)		DATE		TIME		RECEIVED BY: (SIGNATURE)		DATE		TIME	
7-16-03		7-16-03		1530		7-16-03		7-16-03		1530	
RECEIVED FOR LABORATORY BY: (SIGNATURE)		DATE		TIME		CUSTODY SEAL NO.		STL TAMPA LOG NO.		LABORATORY REMARKS	
7-18-03		7-18-03		1610		N/A		B332957			

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

SEVERN
TRENT

STL

352757

STL Tampa
6712 Benjamin Road, Suite 100
Tampa, FL 33634Website: www.stl-inc.com
Phone: (813) 885-7427
Fax: (813) 885-7049

Serial Number 02583

☐ Alternate Laboratory Name/Location
Phone:
Fax:

PROJECT REFERENCE <i>Any 1015</i>		PROJECT NO.		PROJECT LOCATION (STATE) <i>FL</i>		MATRIX TYPE		REQUIRED ANALYSIS				PAGE 2 OF 2	
SAMPLE'S SIGNATURE		P.O. NUMBER		CONTRACT NO.								STANDARD REPORT DELIVERY DATE DUE <i>50495</i>	
CLIENT (SITE) PM <i>Garry Uebelhoe</i>		CLIENT PHONE <i>813-289-9339</i>		CLIENT FAX <i>289-9386</i>								EXPEDITED REPORT DELIVERY (SURCHARGE) DATE DUE	
CLIENT NAME <i>ECL</i>		CLIENT E-MAIL										NUMBER OF COOLERS SUBMITTED PER SHIPMENT:	
CLIENT ADDRESS <i>408 N. Westshore Blvd. Spt 115 Tampa FL.</i>												REMARKS	
COMPANY CONTRACTING THIS WORK (if applicable)													
SAMPLE		SAMPLE IDENTIFICATION		COMPOSITE (C) OR GRAB (G) INDICATE		AQUEOUS (WATER)		SOLID OR SEMISOLID		AIR		NONAQUEOUS LIQUID (OIL, SOLVENT,...)	
DATE	TIME												
<i>7/16/03</i>	<i>1215</i>	<i>35eq 4P</i>		<i>2</i>		<i>2</i>		<i>1</i>		<i>1</i>		<i>LAB composite for 35eq</i>	
		<i>35eq 4C</i>		<i>3</i>		<i>3</i>		<i>3</i>		<i>3</i>			
		<i>35eq 4S</i>		<i>3</i>		<i>3</i>		<i>3</i>		<i>3</i>			
		<i>1050 45eq 5P</i>		<i>2</i>		<i>2</i>		<i>1</i>		<i>1</i>		<i>LAB composite for 45eq</i>	
		<i>45eq 5C</i>		<i>3</i>		<i>3</i>		<i>3</i>		<i>3</i>			
		<i>45eq 5S</i>		<i>3</i>		<i>3</i>		<i>3</i>		<i>3</i>			
		<i>1310 Pipeline</i>		<i>2</i>		<i>2</i>		<i>3</i>		<i>1</i>		<i>1</i>	
RELINQUISHED BY (SIGNATURE)		DATE		TIME		RELINQUISHED BY (SIGNATURE)		DATE		TIME		RELINQUISHED BY (SIGNATURE)	
<i>[Signature]</i>		<i>7-16-03</i>		<i>1530</i>		<i>[Signature]</i>		<i>7-16-03</i>		<i>1530</i>		<i>[Signature]</i>	
RECEIVED BY (SIGNATURE)		DATE		TIME		RECEIVED BY (SIGNATURE)		DATE		TIME		RECEIVED BY (SIGNATURE)	
<i>[Signature]</i>		<i>7-16-03</i>		<i>1530</i>		<i>[Signature]</i>		<i>7-16-03</i>		<i>1530</i>		<i>[Signature]</i>	
RECEIVED FOR LABORATORY BY: (SIGNATURE)		DATE		TIME		CUSTODY YES <input checked="" type="radio"/> NO <input type="radio"/>		CUSTODY SEAL NO. <i>NLS</i>		STL TAMPA LOG NO. <i>8352757</i>		LABORATORY REMARKS	
<i>[Signature]</i>		<i>7-18-03</i>		<i>1610</i>									